Only a matter of style?

For educational purposes we analyse the opening pages of an II-page article that appeared in The American Mathematical Monthly, Volume 102 Number 2/February 1995. We have added line numbers in the right margin.

line 4: Since in this article, squares don't get alternating colours, it could be argued that the term "chessboard" is misplaced.

line 4: The introduction of the name "B" seems unnecessary: it is used -in the combination "the board B"- in the text for Figure 1 and in line 71; in both cases just "the board" would have done fine. In line 77 occurs the last use of B, viz. in "XCB", which is dubious since B was a board and not a set; in line 77. I would have preferred "Given a set X of cells".

line 7/8: The first move, being a move like any other, does not deserve a separate discription. The term "step" is redundant.

line 8: Why not "a move consists of"? line 10/11: At this stage the italics are puzzling, since a move is possible if, for some i,j, cell (i,j) contains a pebble and cells (i+1,j) and (i,j+1) are empty.

line 10: Twice the term "positions" for what everywhere else is called "cells".

line 12: Why not "After k moves the board has k+1 pebbles on it."?

line 12/14: In the one sentence, k counts moves, in the other k counts pebbles. Since the prose does not indicate the scope of dummies, this double use of the same k is a little bit unforgivable.

line 14: "and we set $R := \bigcup_{k\geqslant 1} R(k)$ ". We remark

- the use of the verb "to set" when defining (the set!) R can be considered unfortunate
 since "R" is not used on the next two
- since 'K is not used on the next two pages, the name seems to be introduced too early
- the introduction of the name R seems unnecessary; in the rest of the paper I saw it used once in "any C = R", where "any reachable configuration" would have done. (Note. In the context in question -p 116- the reachable context can remain anonymous: the quoted occurrence of C is the only occurrence of the identifier C in that context. My conclusion is that the reachable configuration has been