This is my fancy article

Markus Tripp*

Abstract. This is a short summary of the contents of this article.

1. Preliminaries

All sorts of things are explained and introduced here. Although this is an article, one can also put stuff in fancy boxes. A tasty example:

Definition 1: Group action

Let G be a group and X a set. A mapping $\alpha : G \times X \to X$ that satisfies

(A1) $\alpha(e, x) = x$,

(A2) $\alpha(g, \alpha(h, x)) = \alpha(gh, x)$

for all g, $h \in G$ and $x \in X$ is called a *group action* of G on X.

Remark 2. It is very common that one replaces α with a dot. Then the two above axioms read as $e \cdot x = x$ and $g \cdot (h \cdot x) = (gh) \cdot x$. ◇

2. Improvements?

Feel free to adapt/polish this template in any way you like. I am happy to discuss ideas and suggestions for general improvement of this template!

References

[1] T.W. Hungerford. *Algebra*. Graduate Texts in Mathematics. Springer New York, 2003. ISBN: 9780387905181.

*Alpen-Adria-Universität Klagenfurt, 9020 Klagenfurt, Austria, markus.tripp@aau.at.
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