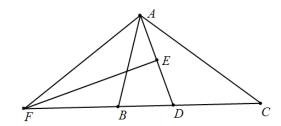
Example 160 : As shown in Figure 1, in \triangle ABC, \angle B = 2 \angle C, the perpendicular line EF of \angle BAC bisector AD intersects the extension line of CB at point F, to prove: AF = AC.



$$\frac{F-A}{\frac{B-C}{C-B}} = \frac{\frac{A-D}{A-B}}{\frac{A-B}{C-A}} \frac{\frac{C-B}{D-A}}{\frac{A-D}{A-F}} \frac{\frac{B-A}{B-C}}{\left(\frac{C-B}{C-A}\right)^2},$$