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$$\left.\begin{aligned} & AD : AB = AH : AC \\ \Longrightarrow\ & (b-h) : c = (c-a) : b \\ \Longrightarrow\ & c(c-a) = b(b-h) \\ \Longrightarrow\ & c^2 = b^2 + ac - bh \qquad (1) \end{aligned}\ \right| \quad \begin{aligned} & DH : BC = AH : AC \\ \Longrightarrow\ & h : a = (c-a) : b \\ \Longrightarrow\ & bh = a(c-a) \\ \Longrightarrow\ & a^2 = ac - bh \qquad (2) \end{aligned}$$

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